

FIG.1

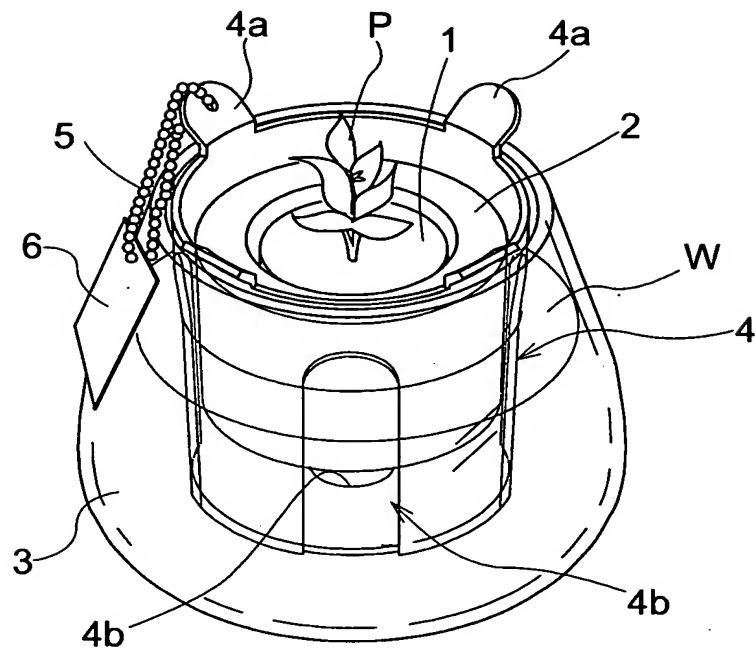


FIG.2

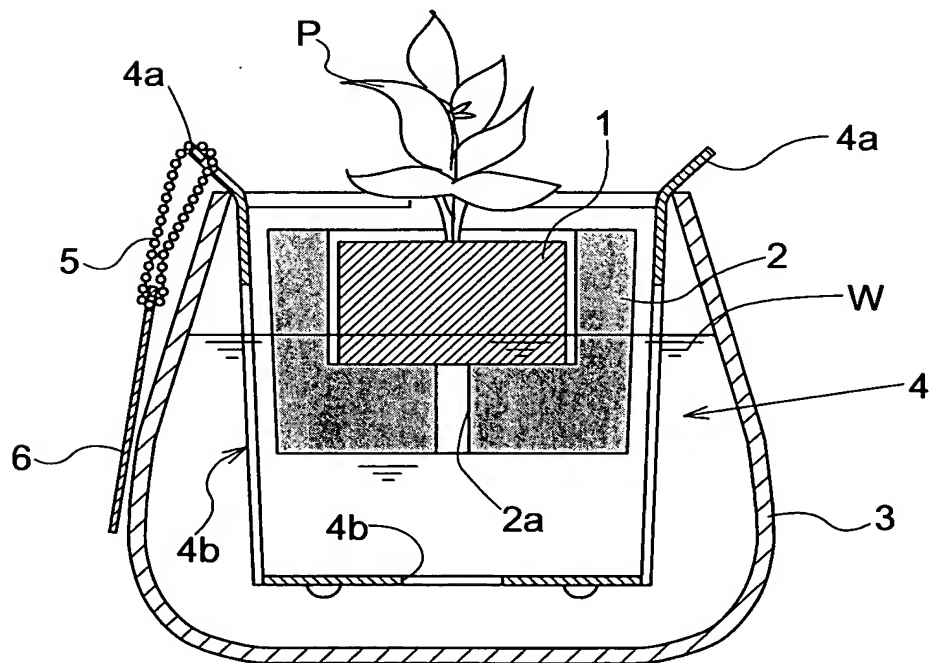


FIG.3

	Comparison Example1	Comparison Example2	Comparison Example3	Comparison Example4	Comparison Example5	Comparison Example6	Comparison Example7
water-retentive filling material under water retaining condition (peat moss) (weight parts)	100	100	100	100	100	100	100
urethane prepolymer (weight parts)	5	17	50	66.6	100	120	150
polyester type polyol (weight parts)	0	0	0	0	0	0	0
polyether type polyol (weight parts)	0	0	0	0	0	0	0
water (weight parts)	800	800	800	800	800	800	800
ratio of water-retentive filling material under water retaining condition(%)	95.2	85.5	66.7	60.0	50.0	45.5	40.0
ratio of urethane prepolymer(%)	4.8	14.5	33.3	40.0	50.0	54.5	60.0
ratio of polyol(%)	0	0	0	0	0	0	0
dry peat moss (weight parts)	60	60	60	60	60	60	60
ratio of water-retentive filling material under dry condition(%)	92.3	77.9	54.5	47.4	37.5	33.3	28.6
ratio of urethane prepolymer(%)	7.7	22.1	45.5	52.6	62.5	66.7	71.4
ratio of polyol(%)	0	0	0	0	0	0	0
density(kg/m ³)	100	92	87	77	71	65	62
shape retentivity	x	x	x	○	○	○	○
hardness (N)	—	—	70	47	43	35	39
restoring force (N)	—	—	6	11	6	5	3
water absorptivity(%)	80	70	34	33	30	21	25
cultivation evaluation (standard cultivation)	x	△	△	△	△	x	x
cultivation evaluation (waterculture)	x	x	△	△	△	x	△

FIG.4

	Example1	Example2	Example3	Example4	Example5	Example6	Example7	Example8	Example9	Example10
water-retentive filling material under water retaining condition (peat moss) (weight parts)	100	100	180	100	100	100	100	100	100	100
urethane prepolymer (weight parts)	100	100	120	120	120	120	120	120	120	120
polyester type polyol (weight parts)	20	0	3	1	3	10	70	120	170	200
polyether type polyol (weight parts)	0	20	0	0	0	0	0	0	0	0
water (weight parts)	800	800	1440	800	800	800	800	800	800	800
ratio of water-retentive filling material under water retaining condition(%)	45.45	45.45	59.4	45.2	44.8	43.5	34.5	29.4	25.6	23.8
ratio of urethane prepolymer(%)	45.45	45.45	39.6	54.3	53.8	52.2	41.4	35.3	30.8	28.6
ratio of polyol(%)	9.1	9.1	0.9	0.5	1.3	4.3	24.1	35.3	43.6	47.6
dry peat moss (weight parts)	60	60	108	60	60	60	60	60	60	60
ratio of water-retentive filling material under dry condition(%)	33.3	33.3	46.8	33.1	32.8	31.6	24.0	20.0	17.1	15.8
ratio of urethane prepolymer(%)	55.6	55.6	51.9	66.3	65.6	63.1	48.0	40.0	34.3	31.6
ratio of polyol(%)	11.1	11.1	1.3	0.6	1.6	5.3	28.0	40.0	48.6	52.6
density(kg/m ³)	78	77	78	64	66	69	96	109	135	140
shape retentivity	○	△	○	○	○	○	○	○	○	○
hardness (N)	31	35	37	30	28	30	29	30	36	38
restoring force (N)	5	4	8	6	5	5.5	6.5	4	7	7
water absorptivity(%)	55	50	50	35	40	46	62	70	75	75
cultivation evaluation (standard cultivation)	⊙	○	△	△	△	△	⊙	○	△	△
cultivation evaluation (waterculture)	△	○	○	⊙	⊙	○	△	×	×	×